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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/418,887DATE: 10/16/2000
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INPUT SET: S36011.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

SEQUENCE LISTING

1
2
3 (1) General Information:
4 (i) APPLICANT: COHEN, Maurice
5 FRIEDMAN, Paula N.
6 GORDON, Julian
7 HODGES, Steven C.
8 KLAS, Michael R.
9 KRATOCHVIL, Jon D.
10 ROBERTS-RAPP, Lisa
11 RUSSELL, John C.
12 STROUPE, Steven D.
13 (ii) TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
14 FOR DETECTING DISEASES OF THE PROSTATE
15 (iii) NUMBER OF SEQUENCES: 35
16 (iv) CORRESPONDENCE ADDRESS:
17 (A) ADDRESSEE: Abbott Laboratories
18 (B) STREET: 100 Abbott Park Road
19 (C) CITY: Abbott Park
20 (D) STATE: IL
21 (E) COUNTRY: USA
22 (F) ZIP: 60064-3500
23 (v) COMPUTER READABLE FORM:
24 (A) MEDIUM TYPE: Diskette
25 (B) COMPUTER: IBM Compatible
26 (C) OPERATING SYSTEM: DOS
27 (D) SOFTWARE: FastSEQ for Windows Version 2.0
28 (vi) CURRENT APPLICATION DATA:
29 (A) APPLICATION NUMBER: US 09/418,887
30 (B) FILING DATE: 15-OCT-1999
31 (C) CLASSIFICATION:
32 (vii) PRIOR APPLICATION DATA:
33 (A) APPLICATION NUMBER: US/08/946,869
34 (B) FILING DATE: 08-Oct-1997
35 (viii) ATTORNEY/AGENT INFORMATION:
36 (A) NAME: Becker, Cheryl L.
37 (B) REGISTRATION NUMBER: 35,441
38 (C) REFERENCE/DOCKET NUMBER: 5697.US.P1
39 (ix) TELECOMMUNICATION INFORMATION:
40 (A) TELEPHONE: 847/935-1729
41 (B) TELEFAX: 847/938-2623
42 (C) TELEX: <Unknown>
43 (2) INFORMATION FOR SEQ ID NO: 1:
44 (i) SEQUENCE CHARACTERISTICS:
45 (A) LENGTH: 367 base pairs
46 (B) TYPE: nucleic acid

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47         (C) STRANDEDNESS: single
48         (D) TOPOLOGY: linear
49     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
50         TGC GCN GGAG CCTGAGCGGA GGGTGTGCGC AGCCTCGCCA GCGGGGGCCC CGGGCTGNGC      60
51         CATTGCCTCA CTGAGCCAGC GCCTGCCTNC TACCTCGCCG ACAGCTGGAA CCAGTGCGAC      120
52         CTAGTGGCTC TCACCTGCTT CCTCCTGGGC GTGGGCTGCC GGCTGACCCC GGGTTTGTAC      180
53         CACCTGGGCC GCACTGTCCT CTGCATCGAC TTCATGGTTT TCACGGTGCG GCTGCTTCAC      240
54         ATCTTCACGG TCAACAAACA GCTGGGGCCC AAGATCGTCA TCGTGAGCAA GATGATGAAG      300
55         GACGTGTTCT TCTTCCTCTT CTTCCCTCGC GTGTGGCTGG TAGCTATGGG TTGGGCCACG      360
56         GAGGGGT
57
58     (2) INFORMATION FOR SEQ ID NO: 2:
59         (i) SEQUENCE CHARACTERISTICS:
60             (A) LENGTH: 214 base pairs
61             (B) TYPE: nucleic acid
62             (C) STRANDEDNESS: single
63             (D) TOPOLOGY: linear
64         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
65         CAAACAGCTG GGGCCCAAGA TCGTCATCGT GAGCAAGATG ATGAAGGACG TGTTCTTCTT      60
66         CCTCTTCTTC CTCGGCGTGT GGCTGGTAGC CTATGGCGTG GCCACGGAGG GGCTCCTGAG      120
67         GCCACGGGAC AGTGACTTCC CAAGTATCCT GCGCCGCGTC TTCTACCGTC CCTACCTGCA      180
68         GATCTTCGGG CAGATTCCCC AGGAGGACAT GGAC
69
70     (2) INFORMATION FOR SEQ ID NO: 3:
71         (i) SEQUENCE CHARACTERISTICS:
72             (A) LENGTH: 205 base pairs
73             (B) TYPE: nucleic acid
74             (C) STRANDEDNESS: single
75             (D) TOPOLOGY: linear
76         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
77         CGTGTGGCTG GTAGCCTATG GCGTGGCCAC GGAGGGGCTC CTGAGGCCAC GGGACAGTGA      60
78         CTTCCCAAGT ATCCTGCGCC GCGTCTTCTA CCGTCCCTAC CTGCAGATCT TCGGGCAGAT      120
79         TCCCCAGGAG GACATGGACG TGGCCCTCAT GGAGCACAGC AACTGCTCGT CGGAGCCCGG      180
80         CTTCTGGGCA CACCCTCCTG GGGCC
81
82     (2) INFORMATION FOR SEQ ID NO: 4:
83         (i) SEQUENCE CHARACTERISTICS:
84             (A) LENGTH: 256 base pairs
85             (B) TYPE: nucleic acid
86             (C) STRANDEDNESS: single
87             (D) TOPOLOGY: linear
88         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
89         CGGGCAGATT CCCCAGGAGG ACATGGACGT GGCCCTCATG GAGCACAGCA ACTGCTCGTC      60
90         GGAGCCCGGC TTCTGGGCAC ACCCTCCTGG GGCCAGGCG GGCACCTGCG TCTCCAGTA      120
91         TGCCAACTGG CTGGTGGTGC TGCTCCTCGT CATCTTCCTG CTCGTGGCCA ACATCCTGCT      180
92         GGTCAACTTG CTCATTGCCA TGTTCACTTA CACATTCGGC AAAGTACAGG GCAACAGCGA      240
93         TCTCTACTGG AAGGCG
94
95     (2) INFORMATION FOR SEQ ID NO: 5:
96         (i) SEQUENCE CHARACTERISTICS:
97             (A) LENGTH: 246 base pairs
98             (B) TYPE: nucleic acid
99             (C) STRANDEDNESS: single

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100 (D) TOPOLOGY: linear

101 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

102 GCGATCTCTA CTGGAAGGCG CAGGTTACCG CCTCATCCGG GAATTCCACT CTCGGCCCCG 60

103 GCTGGCCCCG CCCTTTATCG TCATCTCCCA CTTGCGCCTC CTGCTCAGGC AATTGTGCAG 120

104 GCGACCCCGG AGCCCCCAGC CGTCCTCCCC GGCCCTCGAG CATTTCCGGG TTTACCTTTC 180

105 TAAGGAAGCC GAGCGGAAGC TGCTAACGTG GGAATCGGTG CATAAGGAGA ACTTTCCTGCT 240

106 GGCACG 246

107

108 (2) INFORMATION FOR SEQ ID NO: 6:

109 (i) SEQUENCE CHARACTERISTICS:

110 (A) LENGTH: 277 base pairs

111 (B) TYPE: nucleic acid

112 (C) STRANDEDNESS: single

113 (D) TOPOLOGY: linear

114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

115 GTGCATAAGG AGAACTTTCT GCTGGCACGC GCTAGGGACA AGCGGGAGAG CGACTCCGAG 60

116 CGTCTGAAGC GCACGTCCCA GAAGGTGGAC TTGGCACTGA AACAGCTGGG ACACATCCGC 120

117 GAGTACGAAC AGCGCCTGAA AGTGCTGGAG CGGGAGGTCC AGCAGTGTAG CCGCGTCCCTG 180

118 GGGTGGGTGG CCGAGGCCCT GAGCCGCTCT GCCTTGCTGC CCCCAGGTGG GCCGCCACCC 240

119 CCTGACCTGC CTGGGTCCAA AGACTGAGCC CTGCTGG 277

120

121 (2) INFORMATION FOR SEQ ID NO: 7:

122 (i) SEQUENCE CHARACTERISTICS:

123 (A) LENGTH: 251 base pairs

124 (B) TYPE: nucleic acid

125 (C) STRANDEDNESS: single

126 (D) TOPOLOGY: linear

127 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

128 GGGTCCAAAG ACTGANCCCT GCTGGCGGAC TTCAAGGAGA AGCCCCCACA GGGGATTTTG 60

129 CTCCTAGAGT AAGGCTCATC TGGGCCCTCGG CCCCCGCACC TGGTGGCCTT GTCCTTGAGG 120

130 TGAGCCCCAT GTCCATCTGG GCCACTGTCA GGACCACCTT TGGGAGTGTC ATCCTTACAA 180

131 ACCACAGCAT GCCCGGCTCC TCCCAGAACC AGTCCCAGCC TGGGAGGATC AAGGCCTGGA 240

132 TCCCGGGCCG T 251

133

134 (2) INFORMATION FOR SEQ ID NO: 8:

135 (i) SEQUENCE CHARACTERISTICS:

136 (A) LENGTH: 223 base pairs

137 (B) TYPE: nucleic acid

138 (C) STRANDEDNESS: single

139 (D) TOPOLOGY: linear

140 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

141 GGCTCATCTG GGCTTCGGCC CCCGCACCTG GTGGCCTTGT CCTTGAGGTG AGCCCCATGT 60

142 CCATCTGGGC CACTGTCAGG ACCACCTTTG GGAGTGTCAT CCTTACAAAC CACAGCATGC 120

143 CCGGCTCCTC CCAGAACCAG TCCCAGCCTG GGAGGATCAA GGCTTGGATC CCGGGCCGTT 180

144 ATCCATCTGG AGGCTGCAGG GTCCTTGGGG TAACAGGGAC CAC 223

145

146 (2) INFORMATION FOR SEQ ID NO: 9:

147 (i) SEQUENCE CHARACTERISTICS:

148 (A) LENGTH: 2393 base pairs

149 (B) TYPE: nucleic acid

150 (C) STRANDEDNESS: single

151 (D) TOPOLOGY: linear

152 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

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153	AAGGCCACCT	CGCCGCTCTC	CTGGATGCTG	GCCTCGGCAG	GGCCCTGAA	CCTGCTTCTT	60
154	TGGGCACTGT	TGCTGAAACA	GGCACAGATG	GCCATGTACT	TCTGGGAGAT	GGGTTCCAAT	120
155	GCAGTTTCCT	CAGCTCTTGG	GGCCTGTTTG	CTGCTCCGGG	TGATGGCACG	CCTGGAGCCT	180
156	GACGCTGAGG	AGGCAGCACG	GAGGAAAGAC	CTGGCGTTCA	AGTTTGAGGG	GATGGGCGTT	240
157	GACCTCTTTG	GCGAGTGCTA	TCGCAGCAGT	GAGGTGAGGG	CTGCCCCGCT	CCTCCTCCGT	300
158	CGYTGCCCGC	TCTGGGGGGA	TGCCACTTTG	CCTTCCAGGT	GGCCATGCAA	AGCTGACGSC	360
159	CSTGMCTTCT	TTGCCMAGGA	TGGGGTACAG	TCTCTGCTGA	CACAGAAAGT	GTGGGGAGAT	420
160	ATGGCCAGCA	CTACACCCAT	CTGGGCCCTG	GTTATCGCGT	TCTTTTGCCC	TCCACTCATC	480
161	TACACCCGCC	TCATCACCTT	CAGGAAATCA	GAAGAGGAGC	CCACACGGGA	GGAGCTAGAG	540
162	TTTGACATGG	ATAGTGTCAT	TAATGGGGAA	GGGCCTGTCC	GGACGGCCGA	CCCAGCCGAG	600
163	AAGACGCCGC	TGGGGGTCCC	GCGCCAGTCG	GGCCGTCCGG	GTTGCTGCGG	GGGCCGCTGC	660
164	GGGGGGCGCC	GGTGCCTAGC	CCGCTGGTTC	CATTCTGGG	GCGCGCCGGT	GACCATCTTC	720
165	ATGGGCAACG	TGGTCAGCTA	CCTGCTGTTT	CTGCTGCTTT	TCTCGCGGGT	GCTGCTCGTG	780
166	GATTTCCAGC	CGGCGCCGCC	CGGCTCCCTG	GAGCTGCTGC	TCTATTTCTG	GGCTTTTCACG	840
167	CTGCTGTGCG	AGGAATGCGC	CAGGGCCTGA	GCGGAGGCGG	GGGCAGCCTC	GCCAGCGGGG	900
168	GGCCCGGGCC	TGGCCATGCC	TCACTGAGCC	AGCGCCTGCG	CCTCTACCTC	GCCGACAGCT	960
169	GGAACCAAGT	CGACCTAGTG	GCTCTCACCT	GCTTCCTCCT	GGGCGTGGGC	TGCCGGCTGA	1020
170	CCCCGGGTTT	GTACCACCTG	GGCCGCACCT	TCTCTGTCAT	CGACTTCATG	GTTTTCACGG	1080
171	TGCGGCTGCT	TCACATCTTC	ACGGTCAACA	AACAGCTGGG	GGCCAAGATC	GTCTATCGTGA	1140
172	GCAAGATGAT	GAAGGACGTG	TTCTTCTTCC	TCTTCTTCCCT	CGGCGTGTGG	CTGGTAGCCT	1200
173	ATGGCGTGCG	CACGGAGGGG	CTCCTGAGGC	CACGGGACAG	TGACTTCCCA	AGTATCCTGC	1260
174	GCCGCGTCTT	CTACCGTCCC	TACCTGCAGA	TCTTCGGGCA	GATTCCCCAG	GAGGACATGG	1320
175	ACGTGGCCCT	CATGGAGCAC	AGCAACTGCT	CGTCGGAGCC	CGGCTTCTGG	GCACACCCTC	1380
176	CTGGGGCCCCA	GGCGGGCACC	TGCGTCTCCC	AGTATGCCAA	CTGGCTGGTG	GTGCTGCTCC	1440
177	TCGTATCTTT	CCTGCTCGTG	GCCAACATCC	TGCTGGTCAA	CTTGCTCATT	GCCATGTTCA	1500
178	GTTACACATT	CGGCAAAGTA	CAGGGCAACA	GCGATCTCTA	CTGGAAGGCG	CAGGTTACCG	1560
179	CCTCATCCGG	GAATTCCACT	CTCGGCCCGC	GCTGGCCCCG	CCCTTTATCG	TCATCTCCCA	1620
180	CTTGCGCCTC	CTGCTCAGGC	AATTGTGCAG	GCGACCCCGG	AGCCCCCAGC	CGTCCCTCCCC	1680
181	GGCCCTCGAG	CATTTCCGGG	TTTACCTTTT	TAAGGAAGCC	GAGCGGAAGC	TGCTAACGTG	1740
182	GGAATCGGTG	CATAAGGAGA	ACTTTCTGCT	GGCACGCGCT	AGGGACAAGC	GGGAGAGCGA	1800
183	CTCCGAGCGT	CTGAAGCGCA	CGTCCCAGAA	GGTGGACTTG	GCACTGAAAC	AGCTGGGACA	1860
184	CATCCGCGAG	TACGAACAGC	GCCTGAAAGT	GCTGGAGCGG	GAGGTCCAGC	AGTGATAGCCG	1920
185	CGTCTTGGGG	TGGGTGGCCG	AGGCCCTGAG	CCGCTCTGCC	TTGCTGCCCC	CAGGTGGGGCC	1980
186	GCCACCCCTT	GACCTGCCCTG	GGTCCAAAGA	CTGAGCCCTG	CTGGCGGACT	TCAAGGAGAA	2040
187	GGCCCCACAG	GGGATTTTGC	TCCTAGAGTA	AGGCTCATCT	GGGCTCGGC	CCCCGCACCT	2100
188	GGTGGCCTTG	TCCTTGAGGT	GAGCCCCATG	TCCATCTGGG	CCACTGTCAG	GACCACCTTT	2160
189	GGGAGTGTC	TCCTTACAAA	CCACAGCATG	CCCGGCTCCT	CCCAGAACCA	GTCCAGCCT	2220
190	GGGAGGATCA	AGGCCTGGAT	CCCGGGCCGT	TATCCATCTG	GAGGCTGCAG	GGTCCCTTGGG	2280
191	GTAACAGGGA	CCACAGACCC	CTCACCCTC	ACAGATTCTT	CACACTGGGG	AAATAAAGCC	2340
192	ATTTTCAGAGG	AAAAAAAAAA	AAAAAAAAAA	AAAAAAAAAA	GGGCGGCCGC	GGT	2393

194 (2) INFORMATION FOR SEQ ID NO: 10:

195 (i) SEQUENCE CHARACTERISTICS:

196 (A) LENGTH: 1297 base pairs

197 (B) TYPE: nucleic acid

198 (C) STRANDEDNESS: single

199 (D) TOPOLOGY: linear

200 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

201	GAATTCGGCT	CGAGCAAACA	GCTGGGGCCC	AAGATCGTCA	TCGTGAGCAA	GATGATGAAG	60
202	GACGTGTTCT	TCTTCTCTTT	CTTCTCTGGC	GTGTGGCTGG	TAGCCTATGG	CGTGGCCACG	120
203	GAGGGGCTCC	TGAGGCCACG	GGACAGTGAC	TTCCCAAGTA	TCCTGCGCCG	CGTCTTCTAC	180
204	CGTCCCTACC	TGCAGATCTT	CGGGCAGATT	CCCCAGGAGG	ACATGGACGT	GGCCCTCATG	240
205	GAGCACAGCA	ACTGCTCGTC	GGAGCCCGGC	TTCTGGGCAC	ACCCTCCTGG	GGCCAGGCGC	300

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206	GGCACCTGCG	TCTCCAGTA	TGCCAACTGG	CTGGTGGTGC	TGCTCCTCGT	CATCTTCCTG	360
207	CTCGTGGCCA	ACATCCTGCT	GGTCAACTTG	CTCATTGCCA	TGTTCAAGTTA	CACATTCGGC	420
208	AAAGTACAGG	GCAACAGCGA	TCTCTACTGG	AAGGCGCAGC	GTTACCGCCT	CATCCGGGAA	480
209	TTCCACTCTC	GGCCCCGCGT	GGCCCCGCCC	TTTATCGTCA	TCTCCCACTT	GCGCCTCCTG	540
210	CTCAGGCAAT	TGTGCAGGCG	ACCCCGGAGC	CCCCAGCCGT	CCTCCCCGGC	CCTCGAGCAT	600
211	TTCCGGGTTT	ACCTTTCTAA	GGAAGCCGAG	CGGAAGCTGC	TAACGTGGGA	ATCGGTGCAT	660
212	AAGGAGAACT	TTCTGCTGGC	ACGCGCTAGG	GACAAGCGGG	AGAGCGACTC	CGAGCGTCTG	720
213	AAGCGCACGT	CCCAGAAGGT	GGACTTGGCA	CTGAAACAGC	TGGGACACAT	CCGCGAGTAC	780
214	GAACAGCGCC	TGAAAGTGCT	GGAGCGGGAG	GTCCAGCAGT	GTAGCCGCGT	CCTGGGGTGG	840
215	GTGGCCGAGG	CCCTGAGCCG	CTCTGCCTTG	CTGCCCCCAG	GTGGGCCGCC	ACCCCTTGAC	900
216	CTGCCTGGGT	CCAAAGACTG	AGCCCTGCTG	GCGGACTTCA	AGGAGAAGCC	CCCACAGGGG	960
217	ATTTTGTCTC	TAGAGTAAGG	CTCATCTGGG	CCTCGGCCCC	CGCACCTGGT	GGCCTTGTCC	1020
218	TTGAGGTGAG	CCCCATGTCC	ATCTGGGCCA	CTGTCAAGGAC	CACCTTTGGG	AGTGTCTATCC	1080
219	TTACAAACCA	CAGCATGCCC	GGCTCCTCCC	AGAACCAGTC	CCAGCCTGGG	AGGATCAAGG	1140
220	CCTGGATCCC	GGGCCGTTAT	CCATCTGGAG	GCTGCAGGGT	CCTTGGGGTA	ACAGGGACCA	1200
221	CAGACCCCTC	ACCACTCACA	GATTCTTCAC	ACTGGGGAAA	TAAAGCCATT	TCAGAGGAAA	1260
222	AAAAAAAAAA	AAAAAAAAAA	AAAAAAAGGG	CGGCCGC			1297

223

224 (2) INFORMATION FOR SEQ ID NO: 11:

225 (i) SEQUENCE CHARACTERISTICS:

226 (A) LENGTH: 68 base pairs

227 (B) TYPE: nucleic acid

228 (C) STRANDEDNESS: single

229 (D) TOPOLOGY: linear

230 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

231 AGCTCGGAAT TCCGAGCTTG GATCCTCTAG AGCGGCCGCC GACTAGTGAG CTCGTGACCC 60

232 CGGGAATT 68

233

234 (2) INFORMATION FOR SEQ ID NO: 12:

235 (i) SEQUENCE CHARACTERISTICS:

236 (A) LENGTH: 68 base pairs

237 (B) TYPE: nucleic acid

238 (C) STRANDEDNESS: single

239 (D) TOPOLOGY: linear

240 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

241 AATTAATTCC CGGGTCGACG AGCTCACTAG TCGGCGGCCG CTCTAGAGGA TCCAAGCTCG 60

242 GAATTCCG 68

243

244 (2) INFORMATION FOR SEQ ID NO: 13:

245 (i) SEQUENCE CHARACTERISTICS:

246 (A) LENGTH: 24 base pairs

247 (B) TYPE: nucleic acid

248 (C) STRANDEDNESS: single

249 (D) TOPOLOGY: linear

250 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

251 AGCGGATAAC AATTTACAC AGGA 24

252

253 (2) INFORMATION FOR SEQ ID NO: 14:

254 (i) SEQUENCE CHARACTERISTICS:

255 (A) LENGTH: 18 base pairs

256 (B) TYPE: nucleic acid

257 (C) STRANDEDNESS: single

258 (D) TOPOLOGY: linear

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